

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P848348

Luminaire Tested: **GLAN-SB4D-840-U-T3**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4D-840-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36293 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

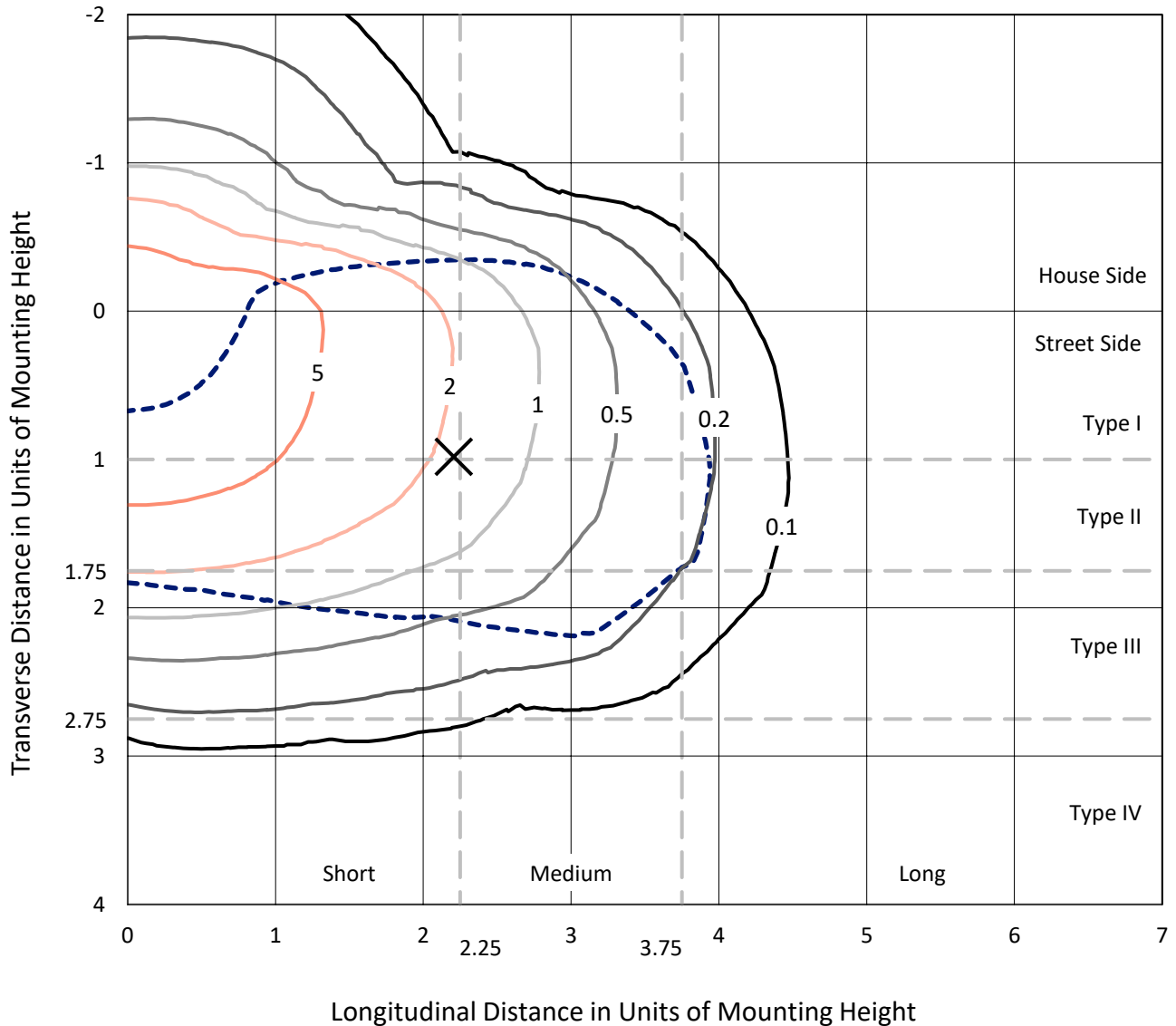
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

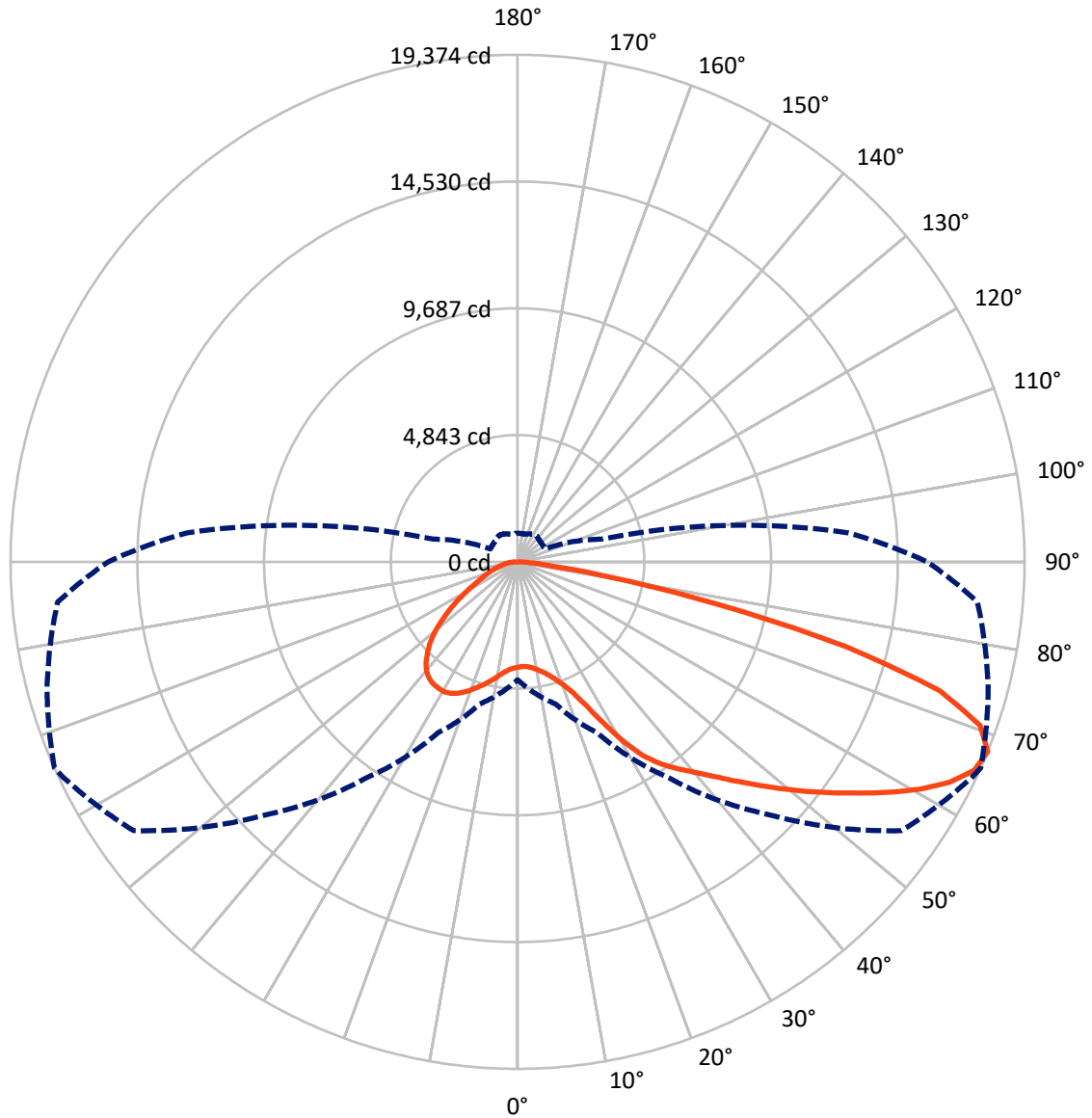
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9024.1	0.0	9024.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	27268.9	0.0	27268.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	36293.0	0.0	36293.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.1	1.1
10°-20°	1318.6	3.6
20°-30°	2541.5	7.0
30°-40°	4456.2	12.3
40°-50°	6624.8	18.3
50°-60°	8397.6	23.1
60°-70°	8216.8	22.6
70°-80°	3919.5	10.8
80°-90°	418.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36293.0	100.0
0°-180°	36293.0	100.0

**Coefficient of Utilization**



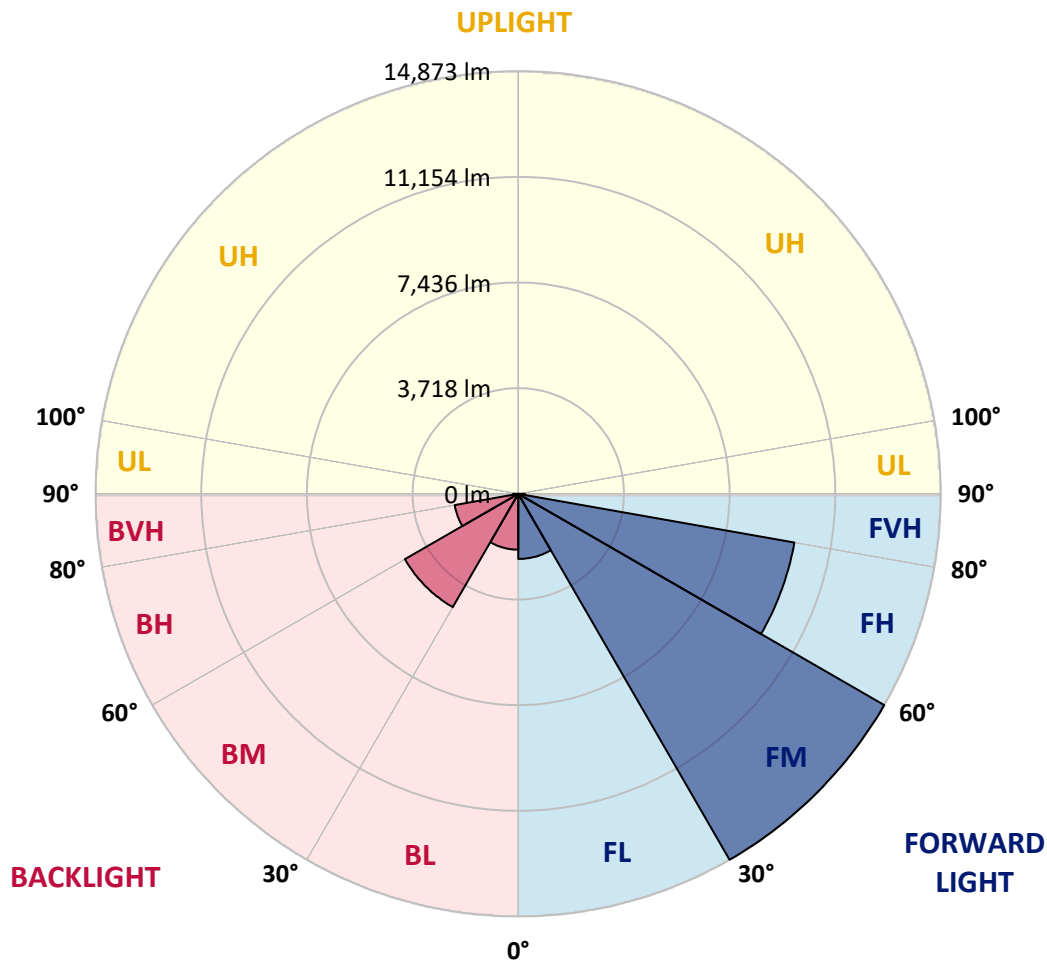
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.4	6.3			
FM (30°-60°)	14872.6	41.0			
FH (60°-80°)	9865.4	27.2			G4/12000
FVH (80°-90°)	237.5	0.7			G3/500
BL (0°-30°)	1965.8	5.4	B3/2500		
BM (30°-60°)	4606.0	12.7	B3/5000		
BH (60°-80°)	2270.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	181.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4
2.5°	3983.4	4006.3	4000.6	3991.0	3989.1	3993.0	3998.7	4004.4	4002.5	4012.0
5°	3972.0	3994.9	3993.0	3993.0	4000.6	4015.8	4025.4	4034.9	4025.4	4036.8
7.5°	3979.6	3996.8	4004.4	4012.0	4031.1	4059.7	4082.6	4103.6	4092.1	4105.5
10°	4076.9	4090.2	4097.8	4097.8	4111.2	4143.6	4166.5	4204.6	4195.1	4216.1
12.5°	4254.2	4267.5	4267.5	4259.9	4269.5	4290.4	4298.1	4340.0	4322.8	4357.2
15°	4471.6	4498.3	4477.3	4464.0	4467.8	4488.7	4486.8	4519.2	4502.1	4530.7
17.5°	4711.8	4746.2	4711.8	4709.9	4702.3	4725.2	4727.1	4755.7	4725.2	4746.2
20°	4996.0	5043.6	5015.0	5024.6	5007.4	5016.9	5026.5	5068.4	5020.8	5036.0
22.5°	5396.4	5453.6	5423.1	5459.3	5447.9	5440.3	5438.4	5512.7	5438.4	5444.1
25°	5979.9	6048.5	5995.2	6044.7	6044.7	6069.5	6098.1	6193.5	6069.5	6033.3
27.5°	6841.8	6910.4	6805.6	6836.1	6826.5	6887.6	6857.1	7093.5	6960.0	6900.9
30°	7879.1	8001.2	7802.9	7795.2	7785.7	7882.9	7926.8	8083.2	7947.8	7888.7
32.5°	9000.4	9128.1	8891.7	8823.0	8786.8	8845.9	8809.7	8935.5	8842.1	8750.6
35°	10186.4	10312.3	10087.3	9953.8	9808.9	9684.9	9555.3	9587.7	9500.0	9360.8
37.5°	11307.7	11538.4	11300.0	11157.0	10890.1	10647.9	10285.6	10134.9	10052.9	9925.2
40°	12449.9	12581.4	12400.3	12278.2	11988.4	11608.9	11029.3	10710.8	10600.2	10476.3
42.5°	13290.8	13416.6	13319.4	13235.5	13008.6	12568.1	11818.7	11420.2	11260.0	11120.8
45°	13958.2	14051.6	13990.6	14021.1	13923.9	13496.7	12636.7	12181.0	12015.1	11845.4
47.5°	14227.1	14326.2	14423.5	14604.6	14770.5	14455.9	13515.8	13004.8	12829.3	12655.8
50°	14196.5	14297.6	14579.8	14965.0	15479.9	15375.0	14442.5	13881.9	13719.8	13521.5
52.5°	13952.5	14066.9	14429.2	15069.9	15889.8	16063.4	15386.4	14787.7	14635.1	14398.7
55°	13311.8	13380.4	13923.9	14831.5	15987.1	16543.9	16311.2	15752.5	15600.0	15270.1
57.5°	12123.8	12222.9	13014.3	14188.9	15743.0	16870.0	17123.6	16767.0	16620.2	16145.4
60°	10573.5	10731.8	11637.5	13109.6	15121.4	16868.0	17861.5	17764.3	17642.2	17007.2
62.5°	8819.2	9002.3	9873.7	11584.2	14034.5	16389.4	18323.0	18599.5	18536.5	17802.4
65°	6773.2	6899.0	7766.6	9610.6	12343.1	15361.6	18376.4	19169.6	19181.1	18406.9
67.5°	4509.7	4872.0	5625.2	7211.7	10077.7	13681.7	17907.3	19263.1	19373.7	18614.7
70°	2200.5	2677.2	3415.2	4687.1	7211.7	11105.5	16681.2	18496.5	18742.5	18008.3
72.5°	913.4	1067.8	1470.2	2313.0	4139.8	7493.9	14217.5	16418.0	16873.8	15956.6
75°	615.9	667.4	840.9	1186.1	1885.9	3695.5	10253.2	12242.0	12976.2	12051.3
77.5°	474.8	507.2	612.1	829.5	1121.2	1397.7	5487.9	7377.6	7757.1	7181.2
80°	373.7	398.5	457.6	604.5	795.2	747.5	1870.6	3342.7	3562.0	2988.0
82.5°	324.2	333.7	328.0	410.0	528.2	436.7	614.0	1233.7	1361.5	987.8
85°	234.5	261.2	272.7	253.6	280.3	221.2	251.7	436.7	480.5	429.0
87.5°	95.3	141.1	173.5	164.0	103.0	62.9	78.2	127.8	146.8	160.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4025.4	0°	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4	4025.4
4027.3	2.5°	4029.2	4042.5	4052.1	4063.5	4071.1	4082.6	4105.5	4118.8	4120.7	4130.3
4057.8	5°	4065.4	4084.5	4105.5	4136.0	4170.3	4198.9	4242.8	4273.3	4284.7	4294.2
4132.2	7.5°	4143.6	4170.3	4208.4	4261.8	4311.4	4349.5	4402.9	4439.2	4475.4	4488.7
4250.4	10°	4259.9	4298.1	4353.4	4425.8	4479.2	4528.8	4584.1	4614.6	4650.8	4666.1
4391.5	12.5°	4404.8	4444.9	4517.3	4618.4	4668.0	4702.3	4721.4	4713.7	4721.4	4734.7
4561.2	15°	4570.7	4614.6	4696.6	4805.3	4839.6	4809.1	4767.1	4729.0	4723.3	4727.1
4767.1	17.5°	4767.1	4799.6	4894.9	4986.4	4961.6	4835.8	4744.3	4683.2	4652.7	4643.2
5030.3	20°	5041.7	5041.7	5119.9	5177.1	5011.2	4797.7	4654.6	4555.5	4492.6	4465.9
5388.8	22.5°	5375.4	5344.9	5394.5	5354.5	5001.7	4690.9	4492.6	4320.9	4225.6	4187.5
5890.3	25°	5798.7	5762.5	5749.2	5501.3	4933.0	4521.2	4198.9	3991.0	3907.1	3886.2
6613.0	27.5°	6437.5	6346.0	6172.5	5581.4	4807.2	4254.2	3855.7	3663.1	3615.4	3617.3
7541.6	30°	7288.0	7104.9	6679.7	5594.7	4601.2	3876.6	3504.8	3367.5	3344.6	3354.2
8321.5	32.5°	8075.5	7902.0	7198.4	5533.7	4284.7	3506.7	3190.2	3098.6	3064.3	3075.8
8916.5	35°	8693.4	8645.7	7678.9	5447.9	3895.7	3159.7	2908.0	2829.8	2763.0	2747.8
9477.1	37.5°	9276.9	9257.8	8039.3	5327.8	3510.5	2913.7	2681.0	2578.1	2480.8	2427.4
10096.8	40°	9917.6	9898.5	8275.8	5142.8	3169.2	2700.1	2477.0	2341.6	2221.5	2124.2
10798.5	42.5°	10638.4	10525.8	8388.3	4877.7	2879.4	2519.0	2311.1	2128.1	1969.8	1880.2
11591.8	45°	11425.9	11172.3	8386.4	4540.2	2635.3	2353.1	2133.8	1874.4	1727.6	1643.7
12406.0	47.5°	12261.1	11790.1	8283.4	4166.5	2398.8	2170.0	1859.2	1660.9	1563.6	1512.1
13290.8	50°	13123.0	12367.9	8108.0	3737.4	2156.7	1962.2	1687.6	1552.2	1477.8	1430.1
14167.9	52.5°	13933.4	12892.3	7896.3	3251.2	1910.7	1760.0	1611.3	1506.4	1428.2	1374.8
15018.4	55°	14686.6	13344.2	7596.9	2753.5	1710.4	1624.6	1575.1	1487.3	1397.7	1334.8
15882.2	57.5°	15355.9	13637.8	7080.2	2286.3	1567.4	1531.2	1536.9	1454.9	1352.0	1298.6
16732.7	60°	15912.7	13853.3	6315.5	1853.5	1451.1	1439.7	1477.8	1393.9	1273.8	1212.8
17451.5	62.5°	16246.4	13849.5	5377.3	1517.9	1352.0	1355.8	1399.6	1317.6	1195.6	1138.4
17827.2	65°	16217.8	13510.1	4347.6	1298.6	1256.6	1260.4	1317.6	1233.7	1130.8	1096.4
17638.4	67.5°	15643.8	12682.5	3335.1	1155.6	1151.7	1168.9	1235.6	1176.5	1090.7	1086.9
16513.4	70°	14089.8	10964.4	2402.6	1041.1	1043.1	1067.8	1155.6	1140.3	1069.7	1077.4
13883.8	72.5°	11298.1	8359.7	1613.2	921.0	922.9	963.0	1079.3	1111.7	1048.8	1149.8
9850.8	75°	7524.5	5213.3	1037.3	793.3	795.2	846.6	1012.5	1056.4	991.6	1146.0
5125.6	77.5°	3615.4	2343.5	751.3	667.4	667.4	715.1	875.2	945.8	844.7	890.5
1647.5	80°	1249.0	881.0	591.1	537.7	526.3	558.7	738.0	819.9	728.4	671.2
537.7	82.5°	492.0	457.6	474.8	417.6	379.5	400.4	574.0	676.9	535.8	484.3
303.2	85°	282.2	297.5	335.6	276.5	219.3	246.0	421.4	486.2	404.3	356.6
99.2	87.5°	76.3	104.9	154.5	143.0	99.2	104.9	200.2	268.9	232.6	179.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°
4025.4
4128.3
4292.3
4490.6
4673.7
4738.5
4740.4
4656.5
4460.1
4181.7
3890.0
3623.0
3386.6
3091.0
2759.2
2429.3
2133.8
1885.9
1639.9
1500.7
1413.0
1352.0
1310.0
1264.2
1186.1
1121.2
1094.5
1092.6
1075.5
1165.1
1155.6
816.1
629.3
482.4
364.2
185.0
0.0

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